How mark "The Hirschfeld case can be read for the proposition that there is a balancing test to determine sufficient disclosure," Sterne sail "On one side the court puts he complexity of the technology being disclosed and claimed. On the other side The court puts the amount of time that would be required by one having ordinary still in the det to take the application and reproduce the discloses and claimed invention. Thus, under this balancing approach, the more complex a system! The more time that would be allowed before insufficient desclosure is found to exist. Y hes, in a very simple invention, only a lay or two of work may be allowed. Sterne made it very clear that
"a drafter should always err on the side
of disclosure by include, additional information
of in doubt in a given expect system or A/
patent situation.

Regardy enablement and description requiements, The fluid knowledge fore is will present Significant patent law problem, Sterne predictel. It "Typicals, The knowledge back to organized lists whose Contests are Changing overtime - I predict That The dynamic nature of this critical element of Al and expect system technology Will be a significal palent lew problem. It renais to be seen how it will he resolved.

Copyright how hotection

In a series of Court of Appeal decisions between 1982 and 1984, Exp Copyright law established protects against literal copyright of compute software in source or object code regardless of the storage media. Copyright Office Proposed Pedes on Abheviated Deposit to Preserve Trade Secret States, See Sept. 30

Jederal Register)

Considering fluid knowledge base There are two copyright issues: Copyrightability and the deposit. I amp Les Sterne Electionic V. Kaufman, Judge MEVMANN of the Accord Circuit held that video game sequences where copyrightable as audio-visual works even though player participation could cause a lerge number of defined changes in the video display sequence. Judge Neumann noted that there was enough specificity in the images and their possible sequences to grasp what the work was. "If the changes to the howledge base are permanent, then we have a standard derivative work situation. Me permanent changes to the knowledge base constitute a derivative work."

Sterne also said that what a suitable deposit scheme is for fluid databases. "They are currently investigating This very question. To do This, they have formed tre Data have they groups. to accept every three worths a deposit of the fluid burnledge base. The Three worth period is proposed in order to comply with section +12, Which requires filing of an application for registration within live worths of publication to preserve the statutory damage and attorney fee remedis." " Mus, it is seen that copyright registration can be obtained for the fixed Symbolic programmig. The fluid knowledge [base] currently is not registrable. Hopefull, this will be charged shortly.

dimension of the second

Juve the In the Whelan can broke new copy hight law radicall changing The scope of comprish plotection accorded to conjuter software "In the Whelan decision, for example, the file structures and other aspects of the architecture and information flow of The program were found copyright protectable. tile structures can be avalogized to the file found in a manual filing system. The arrangement of there file structure was found by rgani The court of appeals to be protected. "Taken at face value, it appears that may aspects of the knowledge base and the inference engine will be protected under Copyright daw, not only against literal copyrig on the Whelan situation. It will be extremely

difficult from a practical point-of-view to advise ellents as to where the zone of protected copyrighted feelinday cods. Since copyright protection Comes into being as soon as a work is fixed in any tangible medium of expression, it can be appreciated that copyright law will Take a very increased role in A1 and expert system infringement situations. The fustice requirement for published works under the of an application is filed within three months 12 States that the statutory damage and attemy fee remedies are not lost with respect to infringements that occur after the creation of the work and before the filey of the application. "Thus, with AI and expect systems having short product line, it can be seen that egypight law may be more effective than patent law since

of protestable rights come into being since it as the work is created, and not much the work is created, and not work when the case under patent can gettend only when I application is sues - u Copy, putertion is also very y is not mexpense frain as compared to patent protection. eclean La "Howeve us of the deternent effect against infra oppright law may not be as effective at law since treble lawyer are not available must in mes minion, with h 1 Ku at it 14 m somewhat more courts in my quinos will have tran the patent typing the copyright law context. This is to Al and expert system on the use of copyright law home context. encerning how a party significant questions concerning how a party significant questions everse engineery activities. There in legal reverse engineery activities. -with ro other engineer will have an excelated to reverse Communication expert system industy since Do. to ... I and A

has not taken legal protection seriously since it was developed in academic environments where ideas are freely exchanged and technology is not room is used as a mechanism to avoid 66 Copyright infringement in the development of a compatible software moderat, me idea behend the clean room from a copyright point of view is that it lints access to the protected software program used in the reverse engineer process only to those aspects of the protected product that are idea/public domain. Me clean room technique requies two teams, one team receiving a lawfully obtained copy of a protected work and decompiling it - producing a document setting forth ideas and specifications that are in the producing that when protected idea domain.

Mis document is then passed on to the second team "unprotected" which will create a new software moduct -- that does not infringe on the originally protected work.

Sterne explained that "this reverse engineery probless was used successfully by may of the micro computer manufactures that have made clones of IBM and Apple Conjutus.

Uf it belied that the companies that literally copied Apple and IBM DIOS were the only ones that were need, and that Apple and IBM did not go after the companier using this clean room method to generate BIOS since they were afraid of an advise legal ontcome.

In NEC. V. Tatel, July Jugan ruled that Intel's microeode in its 8080 Series microprocurors was copyrightable. He set down fortrial The visue of whether any of NEC's vierocode developed using a clean room technique was a copyright afreyent of Intel's Microcode

hade Secast Probeten

(to) the protection of AI and capit systems as it is to soft were in general.

Traderak Protection

"Tradevark protection may also be upostat," Time said, "particular of the mark becomes well known and enjoys a high regulation.

Contract for

"Contrat Law may also provide additional modes of protection through the sales and lease agreements that are utilized with the A and expect system technology"

Optimal Scheme For

First trade secut and copyright law should gleways be used if available. In addition, patent law should be seriously considered, particularly if the invention is a major advance and the product life is long.

In some cases, legal protection of the technology is fundamentally and restrictive but AI + expert systems is coming out of the laboratory and into the marketplace.

The profit motive -- and theufore protection -- may do more for the dissemination of AI and expert system technology than ay other factor

1. Patent 2. Copyright 3. Trade Secut 4. Tradework 5 Contract Jaw

is the first lecture ever on how to apply the 5 various modes intellected property polestion to pract this revolution, technology

Definite herd towards legal puleetin a backlash in the AI + Expel System radicall attens the way the technology evolves and how it is controlled significat questions Copyright law more Effectie Copyright law will take a very mace of role in A1 + Capet System Sufurient Situations rassing unique legal questions #2 billion Robert Oreene Slerne, a Washy for altory Specializing in intellested property involving computer — related technolog.

The herds also while a major justen between any patent a Copyright law The definite trends towards legal protection of artificial intelligene and expert system technology will wreate major legal problems and radically 15 creating B after the way AI evolves and how it is controlled 3 according to one of the nation's top legal specialists. 4 These trends include a predicted backlash from the AI community itself particular the academic arena, since legal protection will which intellectual freedom. and sport restrictions that presently do not exist. The five Parious words modes of milettectual property protection for AI technology, Robert Greene Sterne washfur attory Since A/ and expert system technology is forecasted to be predicted to be a \$2 billen wousty by 1990, Wasy for attomy Robert frene sterne expects the profit motive to eventually be more important to the growth + development of A! than any other factor, This profit notice inherently. 機 patent law, copyright, trade mark, trade wark and Contract law. Tall are injustant

exists in the fill. The very nature of A1.

It is a toss up as to whether patent or copyright law is the most significant mode of intellectual property protestion for attifical intelligene and expert system lecturality. White it is a close call, I believe that patent protection is more important, even though the recent Whilan decision from the Third Wicin't seems to have significantly expanded The stope of copyright protection for software Alalit technolog,"

formands protection Greene explained to a group of experts in the fild recently that "I know from my descensions with academics that they believe that legel protection of the technology is fundamentally bad since it radically afters the way the technology has been developed in the past spice it creates restrictions that presently do not exist. Mough Patent law may be more critical with determine against infringers, Atleme explained wet having copyright law may be more effective. It shows that the copyright law may be more effective. It The average patent takes nearly 3 years to issue, Copyright protections "come into being as soon as the work is created; "when patent two rights come work is created, there patent law, neith come into existence only when a patent application 15 sines." Copyright law is also very mexpersion. "However, " Sterne said, " in terms of the deterent effect against infringers, copyright law may not be as effective as patent law since Treble damages are not available and courts in my opinion will han somewhat more difficulty applying the Copyright law than the patent law to the A1 and expert system context. This is due to the new new of the me of the copyright law in the software context. 9

copyright law to take "a very increased role in A/ and expet a result of an August 4, 486 decesion from due Muladelphia's Durid Circuit which he referred to as The Whelan Case -"The Whelen is extremy orgufical, a distance said, Since it breaks new copyright lev."

What makes the Whelan Case significal is the rule set down by the third linent, he said. "The Court is decider how to draw the line of demarkation between the protected expression of the program and the conjute program that it not necessary to the purpose or function of the program to copy right protected. I have aspects of the program to copy right protected.

The program that are necessary for the purpose of purebin of the program are unputerted. software haved Regardy patent (an, the most regative aspect descriped by Sterne is the perdency period. In an avaly 515 of 119 patents, the average perdency period was 32'2 months. The longest took 92 months and shortest was 8 months.

interest when one considers the short life span of many high Echnology products, Sterve said Still, Sterne preducted a significat more in the number of patents issuing in Al and expect system technolog. "I think it is it is fair to say that the larger conjuter companies are taking a very aggressive position in obtain patents in rus area of technology. It behoove Amaller companies or companies that are les informel to carefully monitor what their competitions are do , 4

Satellite Search & Rescue SARSAT Search + Resoure Satellite-aided Tracking - carried on U.S. Satellites - Canada provides transponders; France The receiver/processors in Russian for space System for Search of Vessels in Distress NASA Calls (2) Canadian Dept. of Communication 3 International Civil aviation Organization 10 28 00 La 201-506-9025 -9007 Jillian 333-8312

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